

What is claimed is:

1. A memory access control apparatus comprising:

5 a memory access control unit for storing image data in a memory by a two-dimensional array according to values of a bank, a row, and a column inside the memory where the image data is to be stored calculated on the basis of coordinate values of the image data constituting one image frame and predetermined data.

10 2. The apparatus of claim 1 further comprising a storing unit for storing the predetermined data.

3. The apparatus of claim 1, wherein the predetermined data is a word per bank, a row per unit line, an offset, and a base row value.

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4. The apparatus of claim 3, wherein the word per bank is the number of words stored in each line of the N^{th} bank of the N^{th} row inside the memory.

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5. The apparatus of claim 3, wherein the row per unit line is the number of rows inside the memory where one image line inside one image frame is stored.

25 6. The apparatus of claim 5, wherein the unit line is the number of lines stored in the N^{th} bank of the N^{th} row inside the memory.

7. The apparatus of claim 3, wherein the offset is obtained by multiplying a vertical line/a unit line to a row per unit line.

8. The apparatus of claim 7, wherein the vertical line is the number
5 of lines inside the memory where one image frame is stored.

9. The apparatus of claim 7, wherein the unit line is the number of lines stored in the N^{th} bank of the N^{th} row inside the memory.

10. The apparatus of claim 3, wherein the base row value is a start
10 row address of one image frame.

11. The apparatus of claim 1, wherein the memory access control unit stores image data of a horizontal direction inside said one image frame in the N^{th}
15 row inside the memory in a horizontal direction, and stores image data of a vertical direction inside said one image frame in the N^{th} row inside the memory in a vertical direction.

12. The apparatus of claim 11, wherein the memory access control
20 unit stores image data of 256 words in the N^{th} bank of the N^{th} row inside the memory.

13. The apparatus of claim 12, wherein the memory access control unit stores the image data in the N^{th} bank of the N^{th} row inside the memory so that
25 a word per bank can be 32 and a unit line can be 8.